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54 **Mercury adsorbent carbons and carbon molecular sieves.**

57 The instant invention is directed to a nut shell carbon impregnated with from about 0.005 to about 15 percent, by weight, of sulfur, and a carbon molecular sieve, having a nitrogen diffusivity of less than 2600×10^{-8} cm²/second, impregnated with from about 0.005 to about 15, preferably 0.01 to 10, most preferably 3 to 7, percent, by weight, of a mercury reactive material.

The instant invention is also directed to a process for removing mercury vapor from gas streams comprising passing a gas stream containing mercury vapor into contact with a nut shell carbon impregnated with from about 0.005 to about 15 percent, by weight, of sulfur, and to a process for removing mercury vapor from gas streams which comprises passing a gas stream containing mercury vapor into contact with a carbon molecular sieve, having a nitrogen diffusivity of less than 2600×10^{-8} cm²/second, impregnated with from about 0.005 to about 15 percent, by weight, of a mercury reactive material.



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A, D	US-A-3 194 629 (DREIBELBIS) * Claims * ---	1, 2	B 01 J 20/20 C 01 B 31/08 B 01 D 53/34
A	FR-A-1 191 220 (SIGMA LUTIN) ---		
A	DE-A-2 150 592 (DET NORSKE ZINKKOMPANI) ---		
A	US-A-3 374 608 (MANES) ---		
A, D	US-A-3 884 830 (GRANT) ---		
A, D	US-A-4 101 631 (AMBROSINI) -----	5, 9	TECHNICAL FIELDS SEARCHED (Int. Cl. 4) B 01 J B 01 D C 01 B C 02 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 21-10-1985	Examiner WENDLING J.P.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			